Modeling across the curriculum, Undergraduate Research & K-12 STEM Collaboration



Engaging Students in modeling and computation NSF Research Experiences for Undergraduates



Padmanabhan Seshaiyer (Padhu) Professor, Mathematical Sciences George Mason University, Fairfax, VA Director, National Science Foundation REU Program Director, VA Department of Education MSP Program Director, COMPLETE(Center for Mathematics Professional Learning and Educational Technology) Email: pseshaiy@gmu.edu Web: http://math.gmu.edu/~pseshaiy/outreach.html



Engaging High school Teachers in Hands-on STEM Based Learning



Engaging High school Students through high school lesson study



Engaging Students in Communicating Research



- 1. URL: Undergraduate Research, http://about.gmu.edu/mason-hosts-nsf-student-research-experience-in-mathematics/
- 2. Modeling, Analysis and Computation of Fluid Structure Interaction Models for Biological Systems, S. Minerva Venuti and P. Seshaiyer (Mentor), SIAM Undergraduate Research Online, Vol. 3, pp 1-17 (2010).
- 3. Transforming Practice Through Undergraduate Researchers, P. Seshaiyer, Council on undergraduate research Quarterly, Fall 2012.